INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2003/001395

A.	CLASSIFICATION OF SUBJECT MATTER							
Int. Cl. 7:	H01L 39/16, H02H 9/02							
According to	International Patent Classification (IPC) or to both	national classification and IPC						
В.	FIELDS SEARCHED							
Minimum docu	mentation searched (classification system followed by c	lassification symbols)						
	searched other than minimum documentation to the ext		hed					
DWPL: IPC I	base consulted during the international search (name of H01L 39/-, H02H 3/-, 7/-, 9/-, H01C 7/-, H01F RRENT LIMITER, MAGNETIC CORE, COI	6/-, 36/- & keywords: SUPERCONDUCTO	r, hts					
C. DOCUMENTS CONSIDERED TO BE RELEVANT								
Category*	Citation of document, with indication, where app	oropriate, of the relevant passages .	Relevant to claim No.					
X.	DE 19851047 A (JOO YONG SEOK ET AL) 10 Jun 1999 See whole document, especially Fig. 8 and column 7 line 60 - column 8 line 16 1-6, 9, 10							
' Y	GB 2321137 A (GEC ALSTHOM LIMITED See whole document, especially Fig.1	1-6, 9, 10						
Y	EP 984462 A (OXFORD INSTRUMENTS (See whole document, especially Fig.1	1-6, 9, 10						
Fu	urther documents are listed in the continuation	of Box C X See patent family ame	x					
"A" document which is relevance "E" carlier ap	not considered to be of particular or or optication or patent but published on or "X" do international filing date	ter document published after the international filing dat and not in conflict with the application but cited to under theory underlying the invention ocument of particular relevance; the claimed invention of insidered novel or cannot be considered to involve an internation to the document is taken alone	stand the principle cannot be					
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) an		ocument of particular relevance; the claimed invention cannot be ossidered to involve an inventive step when the document is combined ith one or more other such documents, such combination being obvious to person skilled in the art ocument member of the same patent family						
exhibitio	n or other means .	currient member of the same patent ranny						
	t published prior to the international filing ater than the priority date claimed							
Date of the actua 20 November	l completion of the international search	Date of mailing of the international search report	5 JAN 2004					
	g address of the ISA/AU	Authorized officer						
PO BOX 200, W	PATENT OFFICE ODEN ACT 2606, AUSTRALIA cc@ipaustralia.gov.au 2) 6285 3929	BAYER MITROVIC Telephone No: (02) 6283 2164						

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Box I	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This int	ernational search report has not been established in respect of certain claims under Article 17(2)(a) for the following
1.	Claims Nos: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3.	Claims Nos: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)
Box II	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Inte	rnational Searching Authority found multiple inventions in this international application, as follows:
See a	additional sheet
1. 2.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite
2.	payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.	\overline{X} No required additional search fees were timely paid by the applicant. Consequently, this international search report
	is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-6, 9 and 10
Remark (on Protest
	No protest accompanied the payment of additional search fees.

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Supplemental Box

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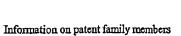
(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: II

Following groups of invention were found:

- 1. Claims 1-6, 9, 10 Superconducting current limiting device having high magnetic permeability structure, central core, superconductive coil surrounding central core and first and second alternating current coils magnetically coupled to central core.
- 2. Claims 7, 8 and 11 Multistage superconducting current limiter comprising first and second current limiter to limit first and second portion of a transient fault.
- 3. Claim 12 Multiphase superconducting current limiter requiring only one cryostat, one cryocooler and one superconducting coil.
- 4. Claims 13 and 14 A DC saturated superconducting current limiter including an air gap in the iron core.

These groups are not so linked as to form a single general inventive concept, that is, they do not have any common inventive features, which define a contribution over the prior art. The common concept linking together these groups of claims is generic superconductive current limiting device. However this concept is not novel in the light of above cited documents.



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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member					
DE	19851047			NONE			
GB	2321137			NONE			
EP	0984462	JР	2000102161	US	6300856	US	2002017974